1 VQE results Aer Estimator (No Shots)

		(Full Hamiltonian)	Harmonic Oscillator		$\Lambda = 8$	COYBLA Max 10K Iterations			
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time
RA r1 rl	1e−01	100/100	60	3.3662e−03	3.3662e−03	1.1522e−02	1.1522e−02	0e+00	00h 00m 19s
RA r1 rl	1e−02	100/100	104	1.4984e−05	1.4984e−05	1.4932e−04	1.4932e−04	-	00h 00m 33s
RA r1 rl	1e−03	100/100	167	4.3202e−07	4.3202e−07	1.4651e−06	1.4651e−06	-	00h 00m 48s
RA r1 rl	1e−04	100/100	292	1.7842e−09	1.7842e−09	1.841e−08	1.841e−08	-	00h 01m 23s
RA r1 rl	1e−05	100/100	455	6.3011e−12	6.3011e−12	1.776e−10	1.776e−10	-	00h 02m 11s
RA r1 rl	1e−06	98/100	488	2.3415e−13	2.3415e−13	1.8599e−12	1.8599e−12	-	00h 03m 34s
RA r1 rl	1e−07	98/100	528	2.9421e−15	2.9421e−15	1.4405e−14	1.4405e−14	-	00h 03m 31s
RA r1 rl	1e−08	100/100	761	−1.6653e−16	1.6653e−16	1.7208e−15	1.7208e−15	-	00h 03m 04s
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time

Table 1